



Field Service Procedure

Part Number: SP00274

Rev: B

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Fabius Tiro™ **Installation of Auxiliary Fresh Gas Outlet**

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Fabius Tiro

Installation of Auxiliary Fresh Gas Outlet

INSTALLATION PROCEDURE

1.0 PREFACE:

WARNING: Any person involved with the setup, operation, or maintenance of the Fabius Tiro anesthesia machine must be thoroughly familiar with the Fabius Tiro Operator's Instruction Manual.

NOTE: The installation portion of this document is separated into two sections. The first section is relative to the auxiliary fresh gas outlet installation onto a trolley mounted Fabius Tiro anesthesia machine. The second section is relative to the auxiliary fresh gas outlet installation onto wall mounted Fabius Tiro anesthesia machine. Ensure the appropriate installation instructions are being used based on the desired location of the auxiliary fresh gas outlet.

Refer to the following sections for proper installation procedures:

Description	Step
Left Side Trolley Mount	3.1
Right Side Trolley Mount	3.2
Left Side Wall Mount	4.1
Right Side Wall Mount	4.2

[Table 1:](#) lists the contents of the Fabius Tiro Fresh Gas Outlet Installation kit - P/N 4118427

Table 1: Fresh Gas Outlet Installation Kit Contents

Part Number	Description	Quantity
4118331	Mount Assembly, Aux. Fresh Gas (assembly consists of mounting bracket and outlet)	1
2600170	Hose	1
4117770-001	Fresh Gas Label - France	1
4117770-002	Fresh Gas Label - UK	1
4117770-003	Fresh Gas Label - Spain	1
4117770-004	Fresh Gas Label - Germany	1
4118486	Screw, Hex Head, #10	2
HW09102	Screw, Button Head, M5	2
HW65015	Washer, Lock	2
HW55013	Nut, Kep, M5	2
SP00274	Service Procedure	1

INSTALLATION PROCEDURE (continued)

2.0 FRESH GAS LABEL IDENTIFICATION

2.1 Select the correct Fresh Gas label per local application or customer requirement.
See [FIGURE 1](#). for corresponding part numbers.

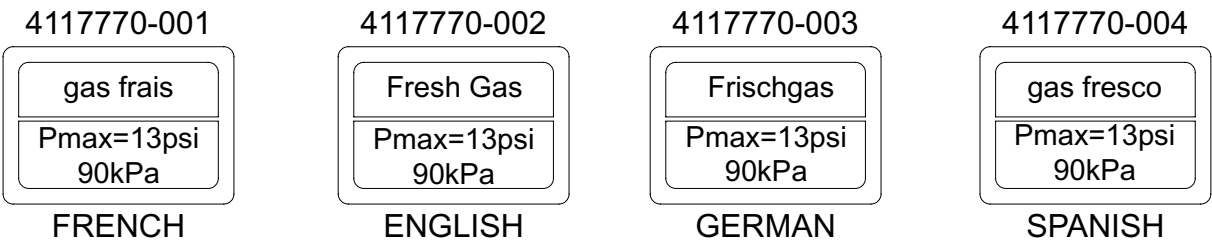


FIGURE 1. Fresh Gas Label Identification

3.0 Auxiliary Fresh Gas Outlet Installation - Trolley Mount

3.1 Left Side Trolley Mount

3.1.1 Machine Preparation- Left Side Trolley Mount

- 3.1.1.1 Verify the Fabius TIRO is in 'Standby' mode and all flow control valves are closed.
- 3.1.1.2 If applicable, remove two hole plugs from the Auxiliary Fresh Gas Outlet attachment holes and note whether the holes are threaded, which will dictate the hardware to be used in Step [3.1.2.1](#)

3.1.2 Auxiliary Fresh Gas Outlet Installation - Left Side Trolley Mount

- 3.1.2.1 Using two (2) #10 self tapping screws and two (2) lock washers, or two (2) M5 screws and two (2) lock washers, attach the Auxiliary Fresh Gas Outlet Assembly to the left side of the Fabius Tiro in the location shown on [FIGURE 2](#).

INSTALLATION PROCEDURE (continued)

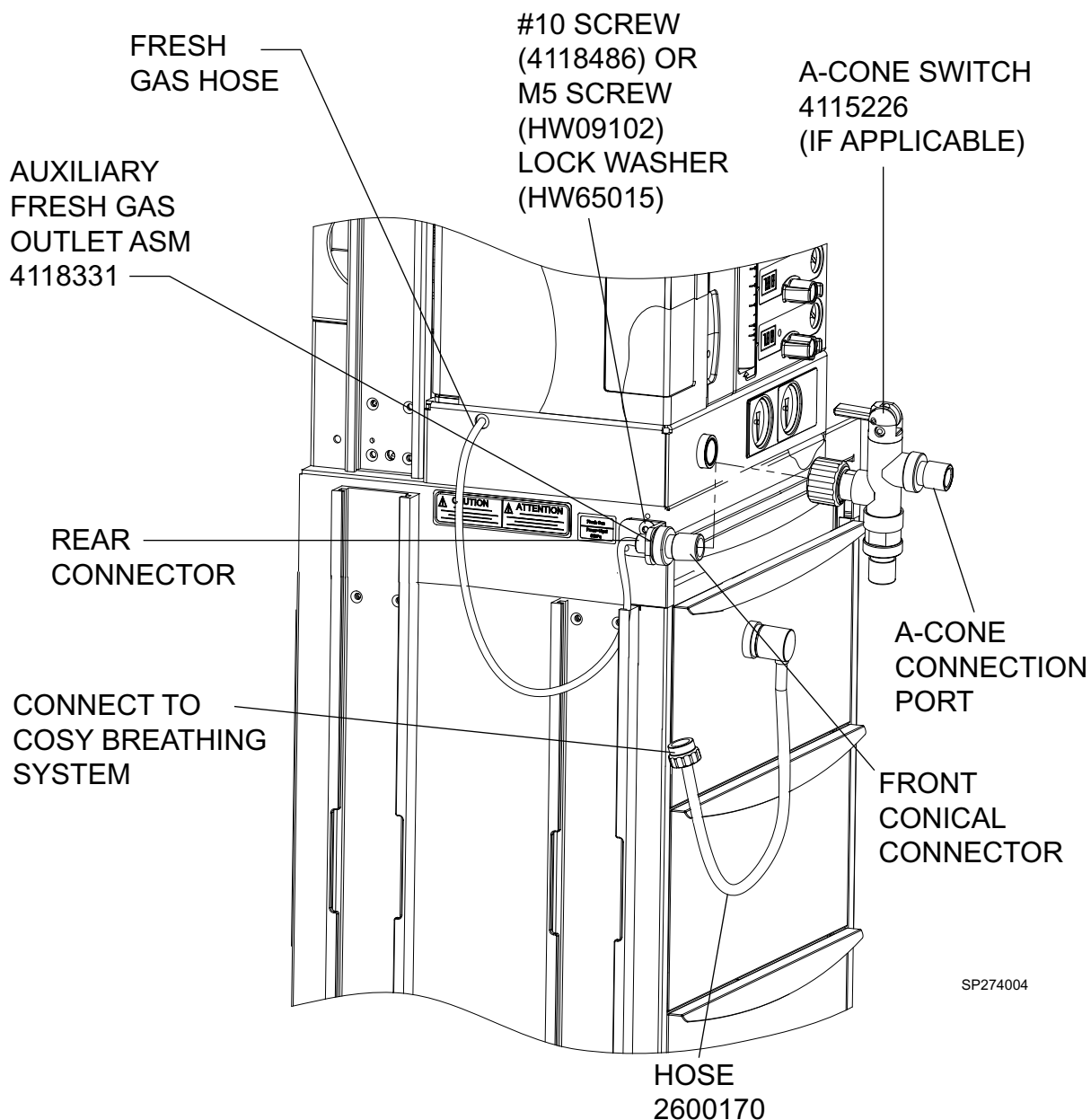


FIGURE 2. Left Side Trolley Mount Auxiliary Fresh Gas Outlet Installation

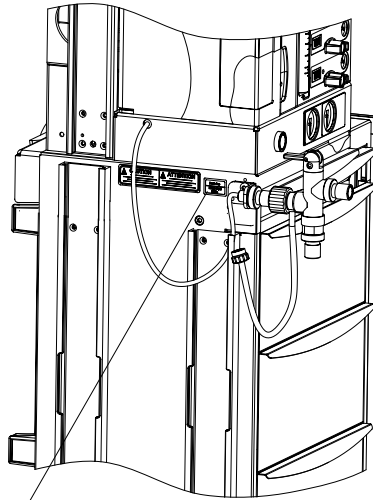
INSTALLATION PROCEDURE (continued)

3.1.3 Label Installation - Left Side Trolley Mount

3.1.3.1 Apply the label to the left side of the Fabius TIRO as shown in [FIGURE 3](#).

3.1.3.2 Proceed to Sections [5.0](#) and [6.0](#) to complete the installation.

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PLACE LABEL IN
APPROX THIS LOCATION

FIGURE 3. Left Side Trolley Mount Label Installation

INSTALLATION PROCEDURE (continued)

3.2 Right Side Trolley Mount

NOTE: Installation of the Auxiliary Fresh Gas Outlet Assembly onto the right side of the machine shall only be installed on machines with a right hand mounted breathing system.

3.2.1 Machine Preparation - Right Side Trolley Mount

- 3.2.1.1 Verify the Fabius TIRO is in 'Standby' mode and all flow control valves are closed.
- 3.2.1.2 Verify the existence of mounting holes in the location shown in [FIGURE 4](#). If mounting holes are present, proceed to step [3.2.1.4](#). If mounting holes are not present, proceed to following step.
- 3.2.1.3 Using a 5/32 (3.9 mm) drill bit, drill pilot holes in location shown in [FIGURE 4](#). by using the Auxiliary Fresh Gas bracket as a template.

INSTALLATION PROCEDURE (continued)

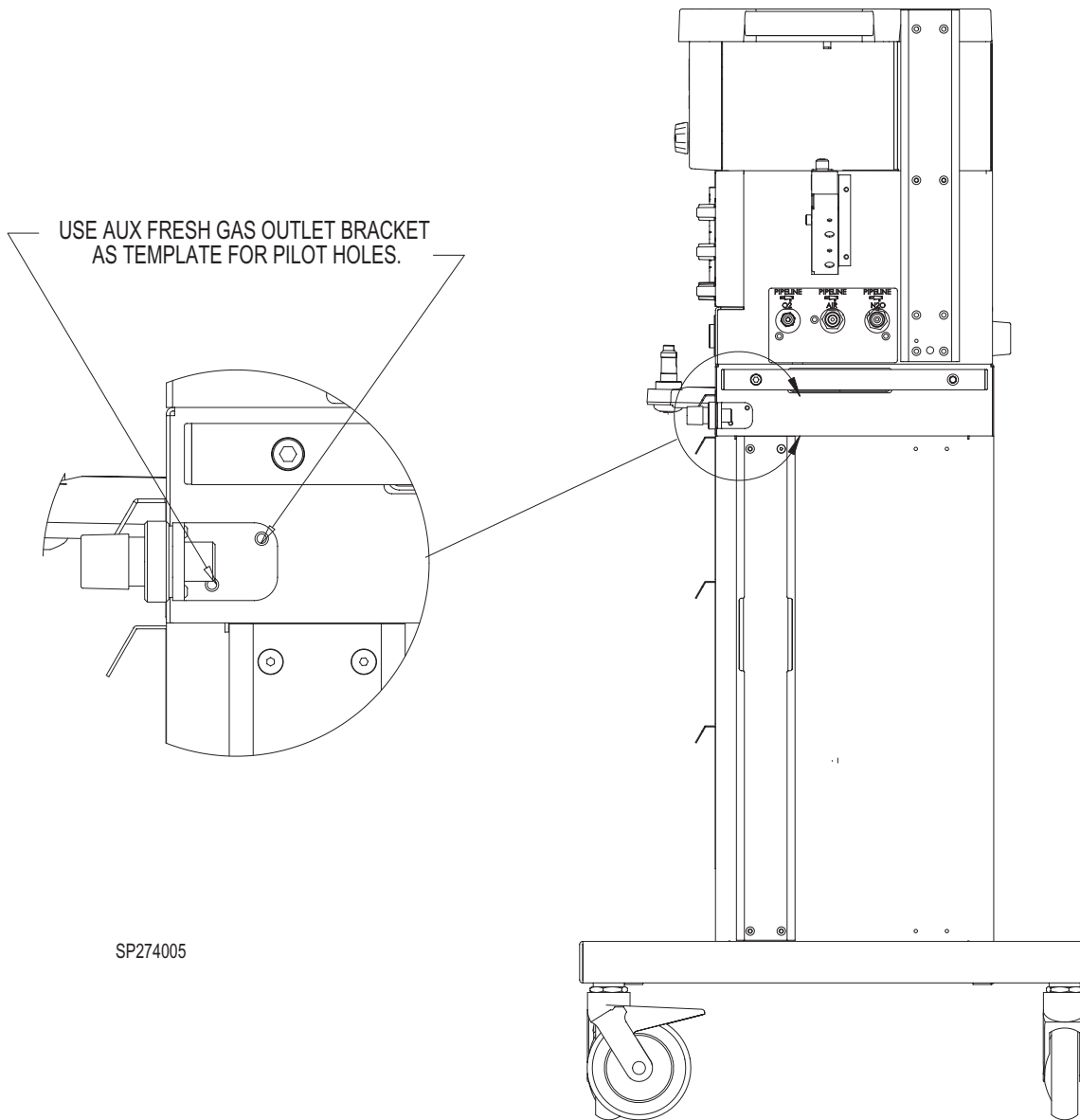


FIGURE 4. Right Side Trolley Mount Drilling Location

- 3.2.1.4 If applicable, remove two hole plugs from the Auxiliary Fresh Gas Outlet attachment holes.

INSTALLATION PROCEDURE (continued)

3.2.2 Auxiliary Fresh Gas Outlet Installation - Right Side Trolley Mount

3.2.2.1 Using two (2) #10 self tapping screws and two (2) lock washers, attach the Auxiliary Fresh Gas Outlet Assembly to the right side of the Fabius Tiro in the location shown on [FIGURE 5](#).

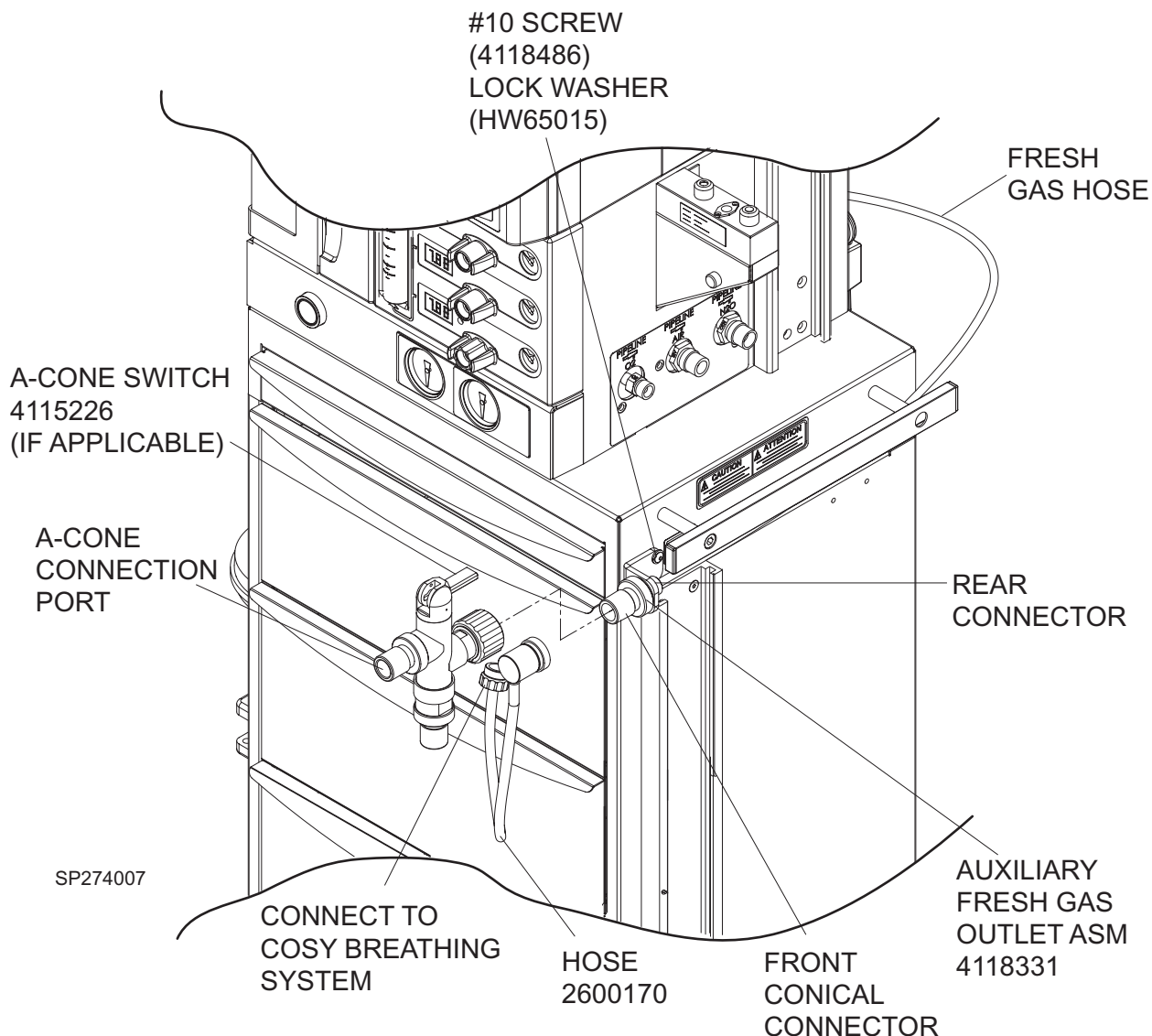


FIGURE 5. Right Side Trolley Mount Auxiliary Fresh Gas Outlet Installation

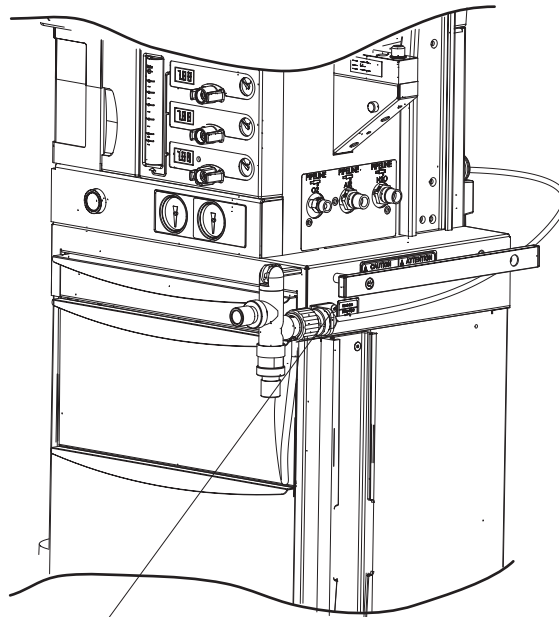
INSTALLATION PROCEDURE (continued)

3.2.3 Label Installation - Right Side Trolley Mount

3.2.3.1 Apply the label to the right side of the Fabius TIRO as shown in [FIGURE 6](#).

3.2.3.2 Proceed to Sections [5.0](#) and [6.0](#) to complete the installation.

SP274006



PLACE LABEL IN
APPROX THIS LOCATION

FIGURE 6. Right Side Trolley Mount Label Installation

INSTALLATION PROCEDURE (continued)

4.0 Auxiliary Fresh Gas Outlet Installation - Wall Mount

4.1 Left Side Wall Mount

4.1.1 Machine Preparation - Left Side Wall Mount

- 4.1.1.1 Verify the Fabius TIRO is in 'Standby' mode and all flow control valves are closed.
- 4.1.1.2 If applicable, remove two hole plugs from the Auxiliary Fresh Gas Outlet attachment holes.

4.1.2 Auxiliary Fresh Gas Outlet Installation - Left Side Wall Mount

- 4.1.2.1 Using two (2) M5 screws and two (2) kep nuts, attach the Auxiliary Fresh Gas Outlet Assembly to the left side of the Fabius Tiro in the location shown on [FIGURE 7](#).

INSTALLATION PROCEDURE (continued)

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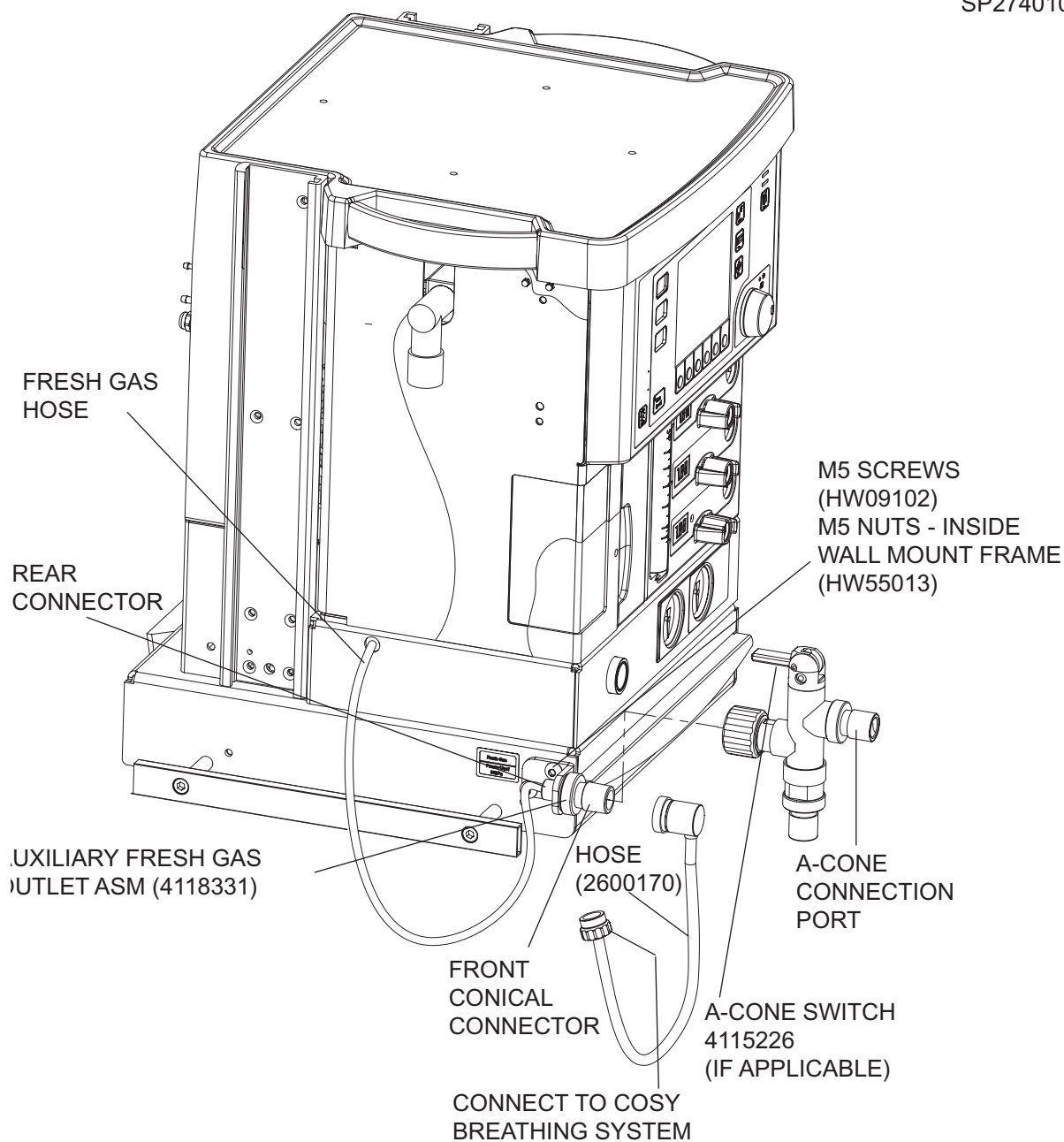


FIGURE 7. Left Side Wall Mount Auxiliary Fresh Gas Outlet Installation

INSTALLATION PROCEDURE (continued)

4.1.3 Label Installation - Left Side Wall Mount

4.1.3.1 Apply the label to the left side of the Fabius TIRO as shown in [FIGURE 8](#).

4.1.3.2 Proceed to Sections [5.0](#) and [6.0](#) to complete the installation.

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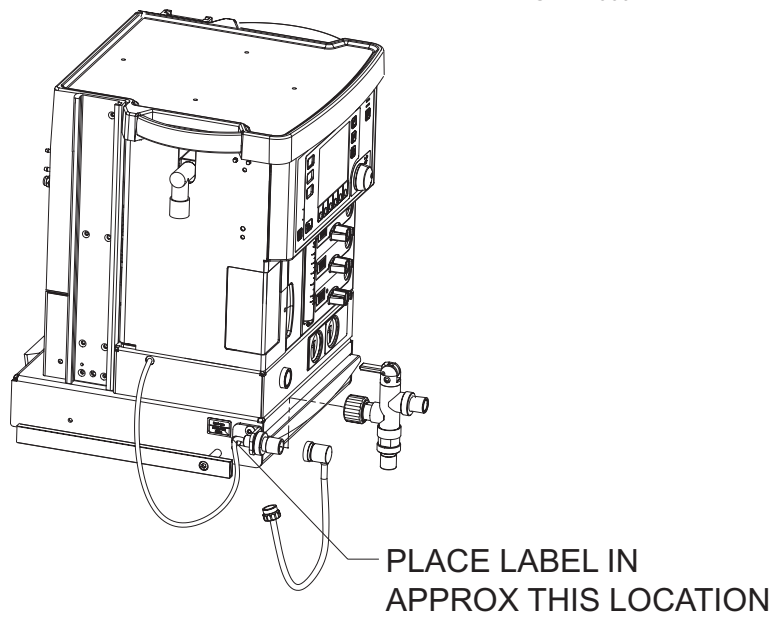


FIGURE 8. Left Side Wall Mount Label Installation

4.2 Right Side Wall Mount

NOTE: Installation of the Auxiliary Fresh Gas Outlet Assembly onto the right side of the machine shall only be installed on machines that have a right hand mounted breathing system.

4.2.1 Machine Preparation - Right Side Wall Mount

- 4.2.1.1 Verify the Fabius TIRO is in 'Standby' mode and all flow control valves are closed.
- 4.2.1.2 Verify the existence of mounting holes in the location shown in [FIGURE 9](#). If mounting holes are present, proceed to step [4.2.1.4](#). If mounting holes are not present, proceed to following step.
- 4.2.1.3 Using a 13/64 (5.15 mm) drill bit, drill pilot holes in location shown in [FIGURE 9](#). by using the Auxiliary Fresh Gas bracket as a template.

INSTALLATION PROCEDURE (continued)

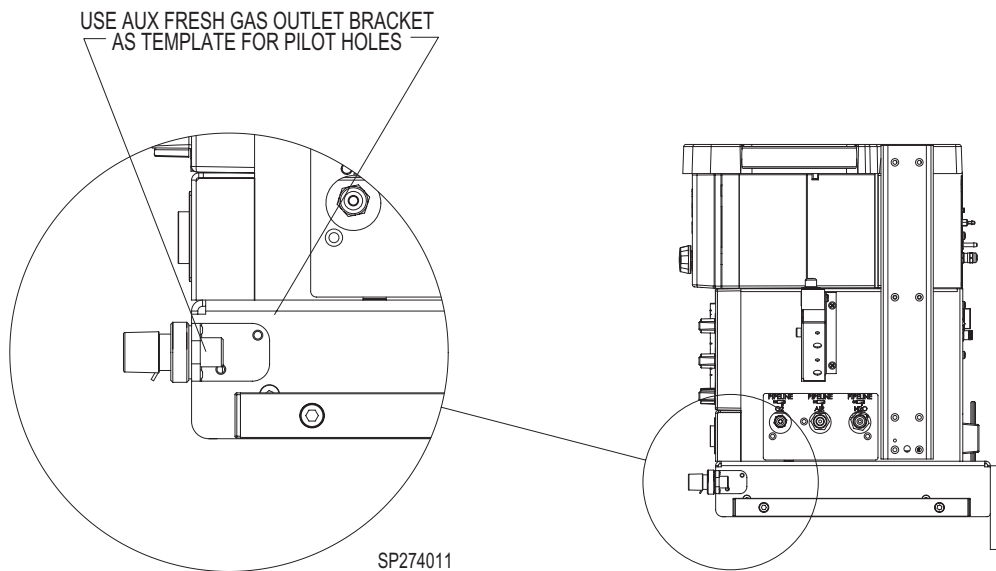


FIGURE 9. Right Side Wall Mount Drilling Location

- 4.2.1.4 If applicable, remove two hole plugs from the Auxiliary Fresh Gas Outlet attachment holes.

INSTALLATION PROCEDURE (continued)

4.2.2 Auxiliary Fresh Gas Outlet Installation - Right Side Wall Mount

4.2.2.1 Using two (2) M5 screws and two (2) kep nuts, attach the Auxiliary Fresh Gas Outlet Assembly to the right side of the Fabius Tiro in the location shown on [FIGURE 10](#).

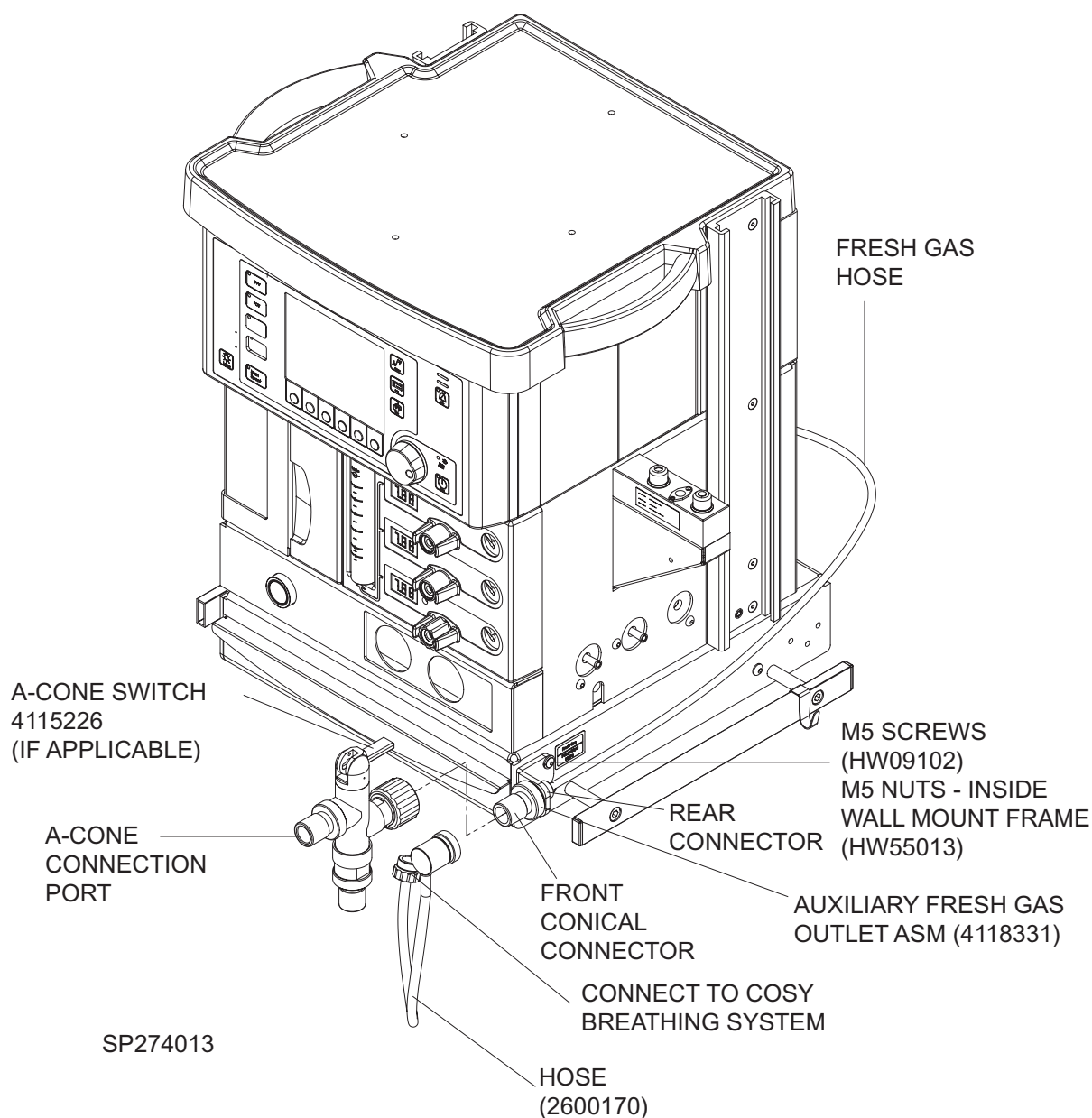


FIGURE 10. Right Side Wall Mount Auxiliary Fresh Gas Outlet Installation

INSTALLATION PROCEDURE (continued)

4.2.3 Label Installation - Right Side Wall Mount

4.2.3.1 Apply the label to the right side of the Fabius TIRO as shown in [FIGURE 11](#).

4.2.3.2 Proceed to Sections [5.0](#) and [6.0](#) to complete the installation.

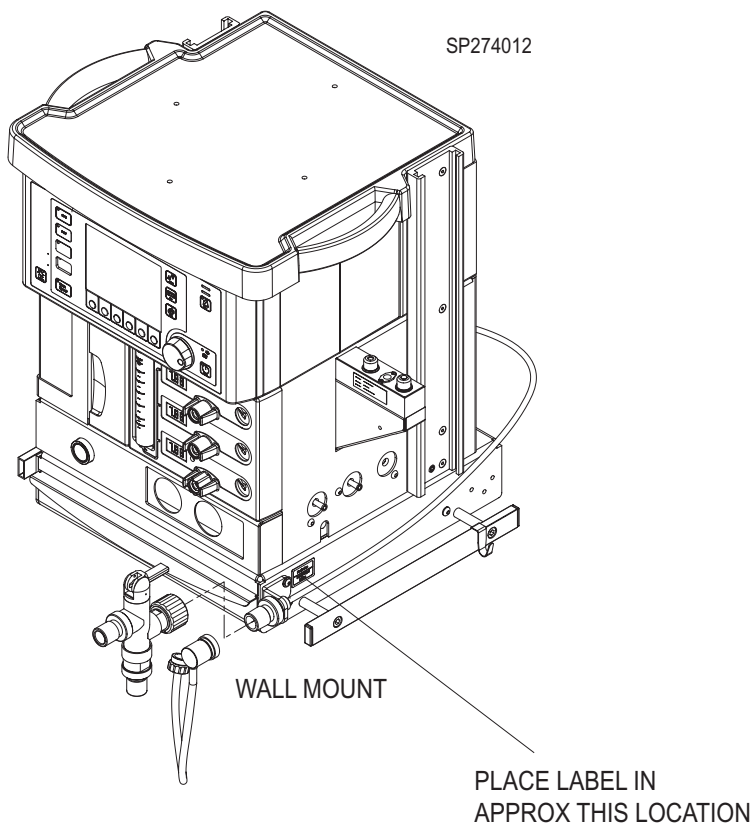
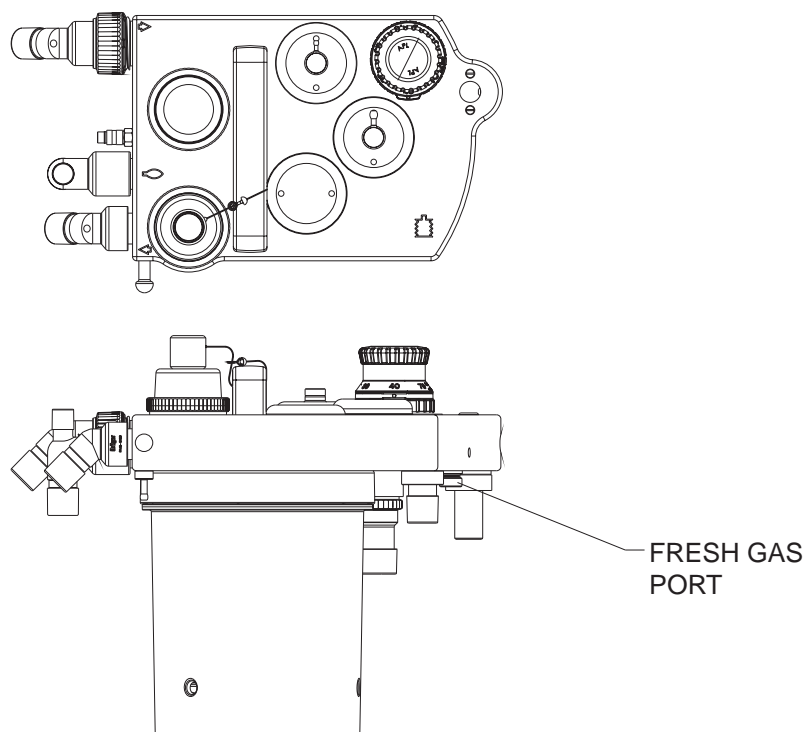


FIGURE 11. Right Side Wall Mount Label Installation

INSTALLATION PROCEDURE (continued)

5.0 Breathing System Attachment:

- 5.1 Detach the Fabius TIRO's existing fresh gas hose from the fresh gas port on the COSY II breathing system. Refer to [FIGURE 12.](#) for COSY II configuration.



SP274014

FIGURE 12. COSY II Breathing System

- 5.2 Join the Fabius TIRO's fresh gas hose to the rear connector on the Auxiliary Fresh Gas Outlet Assembly. For left side trolley mount, refer to [FIGURE 2.](#) for location of the Auxiliary Fresh Gas Outlet Assembly rear connector. For right side trolley mount, refer to [FIGURE 5.](#) for location of the Auxiliary Fresh Gas Outlet Assembly rear connector. For left side wall mount, refer to [FIGURE 7.](#) for location of the Auxiliary Fresh Gas Outlet Assembly rear connector. For right side wall mount, refer to [FIGURE 10.](#) for location of the Auxiliary Fresh Gas Outlet Assembly rear connector.
- 5.3 Connect the hose included in the kit to the front conical connector of the Auxiliary Fresh Gas Outlet Assembly. Refer to paragraph [5.2](#) for appropriate figure referencing location of the Auxiliary Fresh Gas Outlet Assembly front conical connector.

INSTALLATION PROCEDURE (continued)

NOTE: If applicable, install the A-cone switch to the front conical connector of the Auxiliary Fresh Gas Outlet Assembly and connect the hose to the A-cone connection port. Refer to paragraph [5.2](#) for appropriate figure referencing location of A-cone connection port.

5.4 Connect the other end of the hose to the fresh gas port on the COSY II breathing system.

5.5 Discard all unused kit contents.

6.0 PERFORMANCE TEST:

6.1 Pressurize the oxygen system, activate the O2 Flush and verify the fresh gas flow.

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